CURRENT CLAIMS

1. A method of inducing expression of at least one gene in a cultured cell, comprising the steps of:

culturing at least one cell;

contacting said cell with a transcription factor decoy oligonucleotide sequence directed against a nucleotide sequence encoding a shear stress response element; and

determining the expression of said gene in said cell.

2. The method of claim 1, wherein said oligonucleotide comprises a terminal phosphothiorate moiety and a phosphodiester backbone.

3. The method of claim 1, wherein said oligonucleotide passes cell membranes and accumulates in the nuclear compartment of said cell.

5. The method of claim 1, wherein said cultured cell is selected from the group consisting of an epithelial cell and an endothelial cell.

6. The method of claim 4, wherein said cultured cell is selected from the group consisting of renal cortical cell, renal fibroblast cell, hepatocyte, pancreatic islet, renal interstitial cell, parathyroid cell, thyroid cell, pituitary cell, ovarian cell and testicular cell.

7. The method of claim 1, wherein said cultured cell is grown in two dimensional culture.

8. The method of claim 1, wherein said shear stress response element is selected from the group consisting of GAGACC and GGTCTC.

9. The method of claim 1, wherein the gene encodes a protein selected from the group consisting of megalin, cubulin, erythropoietin and 1-a-hydroxylase.

10. The method of claim 1, wherein the concentration of said oligonucleotide is from about 10 nM to about 10 mM.

13. A method of claim 1, wherein said cultured cell is grown in a rotating wall vessel.